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March 1965

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SCIENTIFIC INTELLIGENCE DIGEST

Office of
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**CENTRAL
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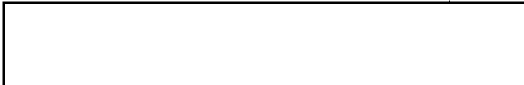


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**SOVIET RELUCTANCE TO CONSTRUCT
NEW-TYPE NUCLEAR FUEL REPROCESSING FACILITIES**

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[REDACTED]
Nuclear Energy Division
OSI/CIA

A statement by a Soviet scientist at the Third Geneva Conference on the Peaceful Uses of Atomic Energy indicates that the Soviets are reluctant to proceed with the construction of chemical processing plants utilizing new processing methods to replace existing facilities. This inability to obtain financing probably reflects a continuing Soviet reluctance to adopt newer more efficient processing methods when existing facilities meet their fuel processing requirements. The Soviets have expressed interest in fluoride volatility processing

and have an operational fluoride volatility pilot plant to study the feasibility of using this process for handling highly enriched fuels. However, the Soviets already have an aqueous plant in existence and apparently feel their present reprocessing facilities have sufficient capacity to meet future processing requirements. Thus, a fluoride volatility processing plant will be constructed only when the expansion of, or major replacements, in present facilities becomes necessary. [REDACTED]

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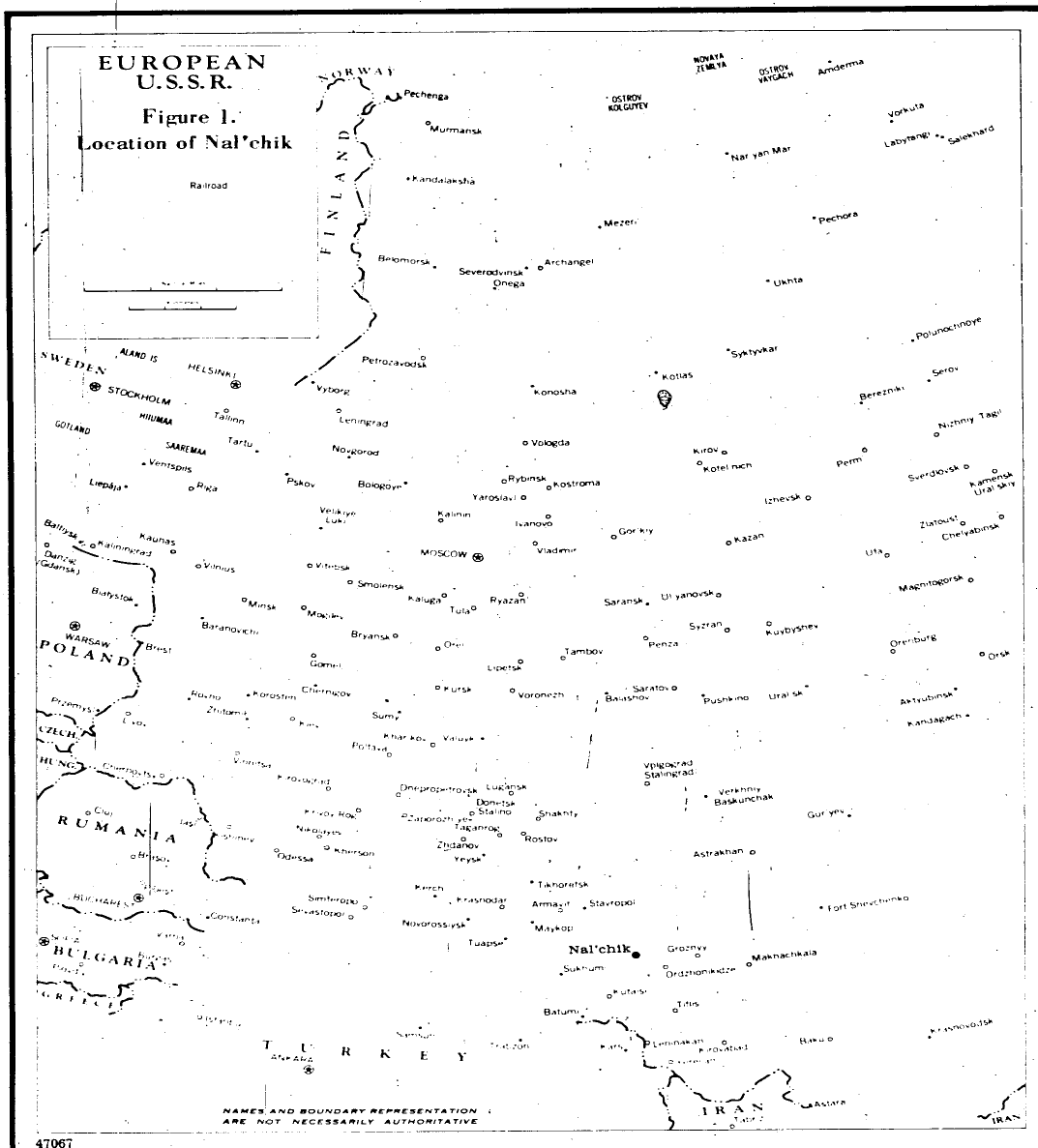
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Figure 1.
Location of Nal'chik



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NOTES

ASSOCIATION OF KAPUSTIN YAR WITH FERGANA VALLEY

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[REDACTED]
Ballistic Missiles and Space Division
OSI/CIA

25X1D



the most likely Fergana Valley installation involved in the flight activity is a large ordnance-type probable production and storage facility west of Isfara. This installation, because of the revetting of many of its structures, is believed to be a probable production site for combustible or explosive materials, possibly solid propellants. [REDACTED]

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OSI-SD/KH/63-2, 1 October 1963, [REDACTED]

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Aerial photography has indicated that

[REDACTED] it possibly concerns missile propellant utilization at the KYMTR. [REDACTED]

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SOVIET USE OF EXPLOSIVES IN CANAL BUILDING

25X1A

[REDACTED]
Nuclear Energy Division
OSI/CIA

During 1964, the United States Atomic Energy Detection System detected seven seismic events in a normally aseismic area of the USSR near the city of Bukhara. A search of Soviet open literature disclosed reports that the Soviets were using directed explosions to dig parts of the Amu-Bukhara irrigation canal. Satellite photography confirmed the canal's con-

struction and that parts of it were being excavated with directed, line-charge explosions. The largest of the explosions was also the largest of all known Soviet industrial blasts. It occurred on 23 July and involved a 9,352-ton charge that excavated 14.2 kilometers (8.9 miles) of canal bed. (See map.) [REDACTED]

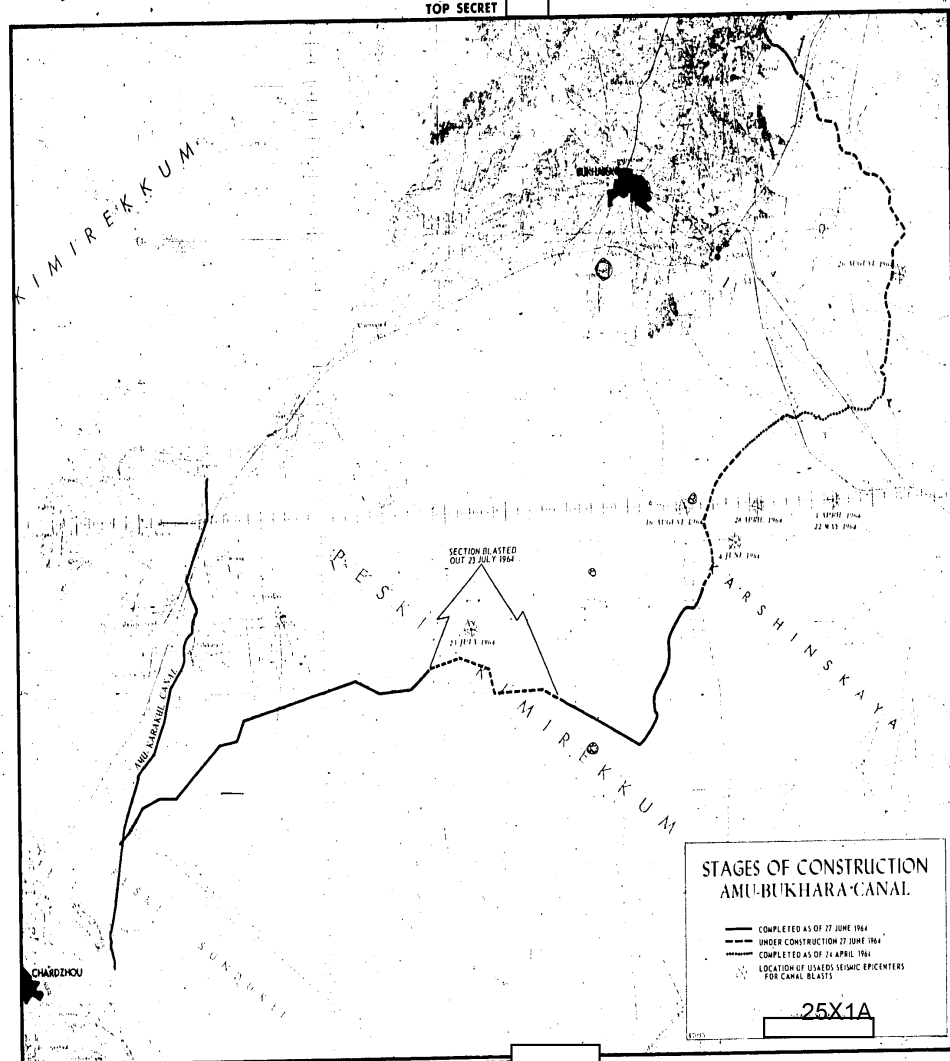
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